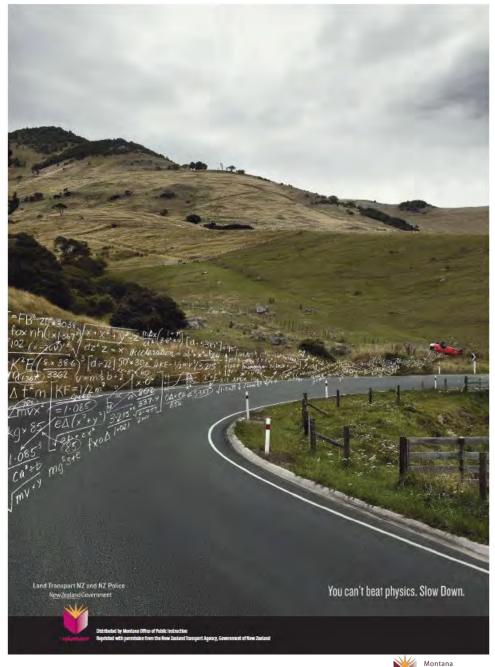
Montana Teen Driver Education and Training

Module 5.3

Protecting Occupants

It's About Managing Natural Laws





Just Like Cars, Our Bodies Obey Natural Laws



Student Activity 1

Work in discussion groups of 2 or 3

 Identify how cars are designed to protect occupants—What features do they have to manage forces in the event of a crash?

Make a list and share it with the class

Three Collisions in Every Crash

- The Vehicle
- The Body
- The Internal Organs



The First Collision:

Vehicle Crash

- Sudden deceleration
- Short duration-0.1 seconds
- Vehicle crumples to absorb energy of crash

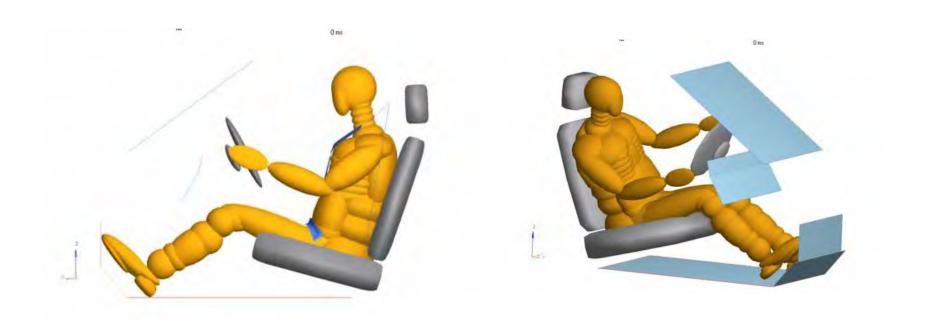


The Second Collision: Occupant Striking Objects

The passenger's body strikes an object



Belted vs. Unbelted

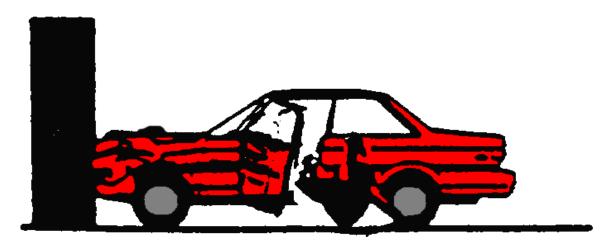


Click on the either figure to replay that animation



DID YOU KNOW?

- Passengers are four times more likely to be killed in a crash when thrown from a vehicle
- The crash force can throw a person 150—200 feet onto the road or into a fixed object



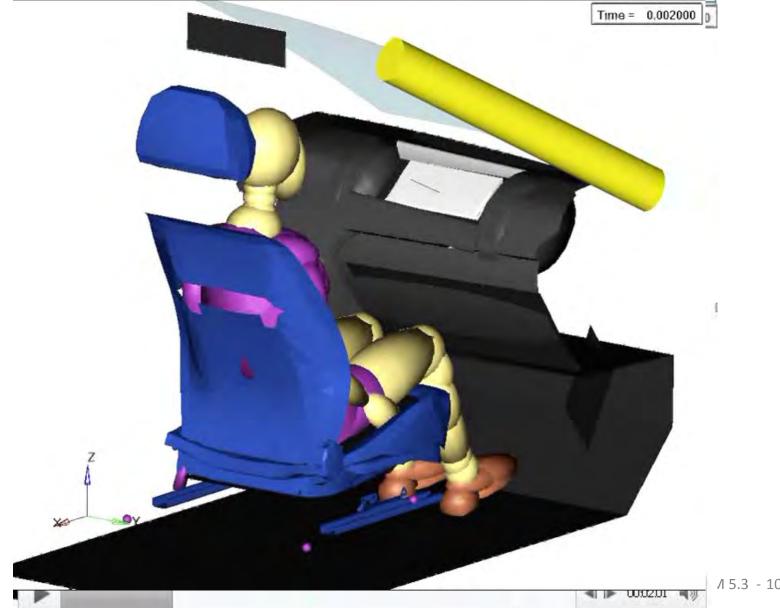
Stay Alive—Stay Tied to Your Ride



What about Airbags?



What about Airbags and No Belt



The Third Collision: Internal Organs

- Internal organs move toward point of impact
- They strike other organs, bones, and skull





Everyone Needs to Buckle Up



Know your Child Safety Restraint Systems









Excuses Really?

I'm only going a short distance and at low speeds.



Excuses Really?

Why is the government telling me what to do? It's nobody's business but my own.

If the person is never hurt in a crash, this excuse works well. Statistics show that unbelted occupants have <u>more severe</u> <u>injuries</u>, <u>longer hospital stays</u>, and <u>more debilitating injuries</u>.

Crash injuries raise the cost of health care for everyone through increased insurance premiums, more tax dollars to fund Medicare, and jeopardize individuals' own financial security. The decision whether or not to buckle up can impact others' lives.



Excuses Really?

- Seat belts are uncomfortable.
- I'm a good driver.
- I'm not in the habit of wearing them.
- I'm afraid of being trapped in a fire or under water.

How would you respond to these excuses?



Student Activity 2

With your new understanding of Natural Laws and Seat Belts ...

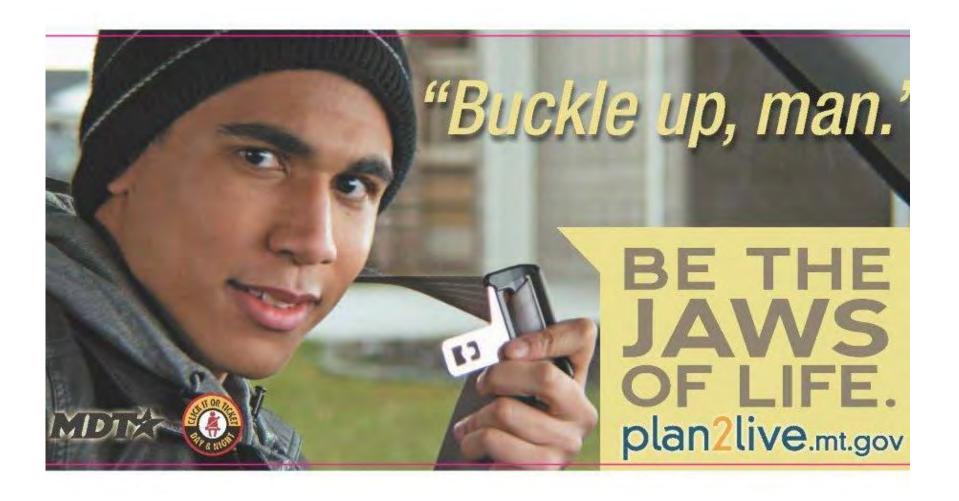
- Work in groups of 3-4 students.
- Choose two excuses you have heard.
- Identify why their logic is flawed based on your knowledge of natural laws. Predict what the consequences of their decision might be.

Seat Belt Initiatives in Montana

- Current Usage—76.9% all roads
- Goal 2015—Increase usage to 89.3%
- How?
 - Move law from a secondary offense to primary offense
 - Targeted enforcement
 - Education—Plan2Live http://plan2live.mt.gov/ and Buckle Up Montana http://buckleup.mt.gov/



Everyone, every time, every drive





Now It's Your Turn

Historically, safety belt usage by teens is lower than adults. Let's change that.

- Create a message for your school that encourages drivers to make sure everyone is safely buckled before the car moves.
- Create a public service announcement video that you can post on social media sites to encourage seat belt use by other teens.



